Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A computer implemented method of controlling system performance comprising the steps of:

recording event information relating to operating software events as the events occur, in order to ~~provide~~ generate operating software program scheduling information relating to interactions between the operating system software and the programs and tasks managed by the operating system software, the event information including information relating to processor resource usage, priority and efficiency of operation of various applications managed by the operating system software;

analyzing the operating software program scheduling information in order to determine how system performance is affected by the operations of the applications being managed by the operating system software, analysis being performed by the operating system software of the system for which the operating software program scheduling information has been generated; and

adjusting defined parameters to modify system performance.

2. (original) The method as claimed in claim 1, wherein the defined parameters include at least one of scheduling priority, program termination, delayed restart, and program load leveling.

3. (original) The method as claimed in claim 1, wherein the program scheduling information includes at least one of a count of the number of program schedules, a count of the number of program preempts, a count of the number of interrupts, a highest priority attained, a

program identity, a length of run-time, a count of the number of times in the idle loop, a count of the duration of the idle loop, a sequential record of scheduled programs, a sequential record of priorities, a sequential record of events, a count of the number of programs waiting to run per schedule time, and an identity of programs waiting to run per schedule time.

4. (original) The method as claimed in claim 1, wherein said analysis step includes determining at lest one of a system processing capability, a number of programs scheduled, a program run-time priority, a length of time each program executed, a number of preemptions, a number of interrupts, and an amount of idle time.

5. (previously presented) The method as claimed in claim 1, further comprising the step:

monitoring the operating software scheduling information.

6. (currently amended) A computer system for capturing operating software scheduling information during execution of said operating software comprising:

a processor for receiving and transmitting data; and

a memory coupled to the processor, the memory having stored therein sequences of instructions which, when executed by the processor, cause the processor to record operating software events as the events occur, in order to ~~provide~~ generate operating software program scheduling information relating to interactions between the operating system software and the programs and tasks managed by the operating system software, the event information including information relating to processor resource usage, priority and efficiency of operation of various applications managed by the operating system software, to analyze the operating software scheduling information in order to determine how system performance is affected by the operations of the applications being managed by the operating system software, the sequences of

instructions performing the analysis of the operating software scheduling information being part of the instructions forming the operating system software for which the operating software scheduling information has been generated, the sequences of instructions stored within the memory including sequences of instructions to ~~and~~ adjust defined parameters to modify system performance.

7. (original) The computer system as claimed in claim 6, wherein the memory further includes sequences of instructions which, when executed by the processor, cause the processor to monitor operating software scheduling information.

8. (original) The computer system as claimed in claim 6, wherein the defined parameters include at least one of scheduling priority, program termination, delayed restart and program load leveling.

9. (original) The computer system as claimed in claim 6 , wherein the program scheduling information includes at least one of a count of the number of program schedules, a count of the number of program preempts, a count of the number of interrupts, a highest priority attained, a program identity, a length of run-time, a count of the number of times in the idle loop, a count of the duration of the idle loop, a sequential record of scheduled programs, a sequential record of priorities, a sequential record of events, a count of the number of programs waiting to run per schedule time, and an identity of programs waiting to run per schedule time.

10. (original) The computer system as claimed in claim 6, wherein the analysis includes determining at lest one of a system processing capability, a number of programs scheduled, a program run-time priority, a length of time each program executed, a number of preemptions, a number of interrupts, and an amount of idle time.